


[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)

 Search: ☒ The ACM Digital Library ☐ The Guide


**THE ACM DIGITAL LIBRARY**

[Feedback](#) [Report a problem](#) [Satisfaction survey](#)

 Terms used [color](#) [correlation](#) [noise](#) [convert](#) [transform](#) [correct](#)

Found 961 of 196,064

Sort results by


[Save results to a Binder](#)

 Try an [Advanced Search](#)

 Try this search in [The ACM Guide](#)

Display results


[Search Tips](#)
☐ Open results in a new window

Results 1 - 20 of 200

 Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

Best 200 shown

 Relevance scale ☐ ☐ ☐ ☐ ☐

### 1 [An analysis of selected computer interchange color spaces](#)



James M. Kasson, Wil Plouffe

 October 1992 **ACM Transactions on Graphics (TOG)**, Volume 11 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(8.77 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Important standards for device-independent color allow many different color encodings. This freedom obliges users of these standards to choose the color space in which to represent their data. A device-independent interchange color space must exhibit an exact mapping to a colorimetric color representation, ability to encode all visible colors, compact representation for given accuracy, and low computational cost for transforms to and from device-dependent spaces. The performance of CIE 1931 ...

**Keywords:** CIE 1931 XYZ, CIELAB, CIELUV, SMPTE-C RGB, YCbCr, YES, color, color models, color spaces, device-independent color, quantization

### 2 [High dynamic range imaging](#)



Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik

 August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

 Full text available: [pdf\(20.22 MB\)](#)

 Additional Information: [full citation](#), [abstract](#)

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent advances in high-dynamic-range imaging, from capture to display, that remove this restriction, thereby enabling images to represent the color gamut and dynamic range of the original scene rather than the limited subspace imposed by current monitor ...

### 3 [Level set and PDE methods for computer graphics](#)



David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker

 August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

 Full text available: [pdf\(17.07 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [citations](#)

Level set methods, an important class of partial differential equation (PDE) methods,

define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

#### 4 Color science and color appearance models for CG, HDTV, and D-CINEMA



Charles Poynton, Garrett Johnson

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

**Publisher:** ACM Press

Full text available: [pdf\(1.46 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This course introduces the science behind image digitization, tone reproduction, and color reproduction in computer generated imagery (CGI), HDTV, and digital cinema (D-cinema). We detail how color is represented and processed as images are transferred between these domains. We detail the different forms of nonlinear coding ("gamma") used in CGI, HDTV, and D-cinema. We explain why one system's *RGB* does not necessarily match the *RGB* of another system. We explain color specification ...

#### 5 Real-time shading



Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

**Publisher:** ACM Press

Full text available: [pdf\(7.39 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

#### 6 Real-time volume graphics



Klaus Engel, Markus Hadwiger, Joe M. Kniss, Aaron E. Lefohn, Christof Rezk Salama, Daniel Weiskopf

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

**Publisher:** ACM Press

Full text available: [pdf\(7.63 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The tremendous evolution of programmable graphics hardware has made high-quality real-time volume graphics a reality. In addition to the traditional application of rendering volume data in scientific visualization, the interest in applying these techniques for real-time rendering of atmospheric phenomena and participating media such as fire, smoke, and clouds is growing rapidly. This course covers both applications in scientific visualization, e.g., medical volume data, and real-time rendering, ...

#### 7 Realistic materials in computer graphics: Realistic materials in computer graphics



Hendrik P. A. Lensch, Michael Goesele, Yung-Yu Chuang, Tim Hawkins, Steve Marschner, Wojciech Matusik, Gero Mueller

July 2005 **ACM SIGGRAPH 2005 Courses SIGGRAPH '05**

**Publisher:** ACM Press

Full text available: [pdf\(18.24 MB\)](#) Additional Information: [full citation](#), [references](#)


[SPIE DL home](#) | [Scitation home](#) | [Search SPIN](#) | [help](#) | [contact](#) | [sign in](#) | [sign out](#)

SPIE Digital Library

Proceedings

Journals

## SPIE—The International Society for Optical Engineering

[My SPIE Subscription](#) | [My E-mail Alerts](#) | [My Article Collections](#)
[Home](#) » [Advanced Search](#) » Search Results

SEARCH DIGITAL LIBRARY

[\[Back to Search Query\]](#) | [Start New Search](#) | [Searching Hints](#)

Search

Advanced Search

## BROWSE PROCEEDINGS

- ☐ Proceedings
  - ☐ By Year
  - ☐ By Symposium
  - ☐ By Volume No.
  - ☐ By Volume Title
  - ☐ By Technology

## BROWSE JOURNALS

- ☐ Journals
  - ☐ Optical Engineering
  - ☐ J. Electronic Imaging
  - ☐ J. Biomedical Optics
  - ☐ J. Micro/Nanolithography, MEMS, and MOEMS
  - ☐ J. Applied Remote Sensing
  - ☐ J. Nanophotonics

## SUBSCRIPTIONS &amp; PRICING

- ☐ Institutions & Corporations
- ☐ Personal subscriptions

## GENERAL INFORMATION

- ☐ About the Digital Library
- ☐ Terms of Use
- ☐ SPIE Home

### Search Results

You were searching for : (((color <near/3> (convert <or> transform <or> correct)) <and>(function <or> matrix))) <AND> usdate <=24-sep-2003

You found 18 out of 231774 (18 returned)

Documents 1 - 18 listed on this page

Options for selected Articles

Check Article(s) then ...

Go

?

Adding to MyArticles will open a second window (Scitation login required). **YOUR CART**

[ Related SPIE Products ]

83%

1. ☐ **Color image processing in Canon's digital camera**  
Yoshiro Udagawa  
Proc. SPIE **2658**, 280 (1996) **Full Text:** [ PDF (198 kB) ] (7 pages)

83%

2. ☐ **Design of an optimal-weighted MACE filter realizable with arbitrary SLM constraints**  
Jin Ge and P. Karivaratha Rajan  
Proc. SPIE **2752**, 39 (1996) **Full Text:** [ PDF (336 kB) ] (12 pages)

81%

3. ☐ **A reference tristimulus colorimeter**  
George P. Eppeldauer  
Proc. SPIE **4421**, 749 (2002) **Full Text:** [ PDF (171 kB) ] (4 pages)

79%

4. ☐ **Automatic image processing system for beautifying human faces**  
Kevin I. C. Ho, Tung-Shou Chen, and Hsing-Yi Su  
Proc. SPIE **4922**, 23 (2002) **Full Text:** [ PDF (194 kB) ] (10 pages)

79%

5. ☐ **Color and luminance contrast sensitivity function of people with anomalous color vision**  
Kristian Samu, Klara Wenzel, and Karoly Ladunga  
Proc. SPIE **4421**, 351 (2002) **Full Text:** [ PDF (70 kB) ] (4 pages)



Welcome United States Patent and Trademark Office

☐ Search Results

[BROWSE](#)
[SEARCH](#)
[IEEE XPLORE GUIDE](#)

Results for "(( color &lt;near/3&gt; (convert &lt;or&gt; transform)&lt;in&gt;ab )) &lt;and&gt; (pyr &gt;= 1950 ..."

☒ e-mail

Your search matched 95 of 1476571 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

## » Search Options

[View Session History](#)
[New Search](#)

## Modify Search


☐ Check to search only within this results set
Display Format: ☒ Citation ☐ Citation & Abstract

## » Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

[Select All](#)
[Deselect All](#)

View: 1-25 | 26-

- ☐ 1. Autonomous robotic vehicle road following  
Kuan, D.; Phipps, G.; Hsueh, A.-C.;  
[Pattern Analysis and Machine Intelligence, IEEE Transactions on](#)  
Volume 10, Issue 5, Sept. 1988 Page(s):648 - 658  
Digital Object Identifier 10.1109/34.6773  
[AbstractPlus](#) | Full Text: [PDF\(1284 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 2. Educational experiments in machine vision  
Crevier, D.;  
[Education, IEEE Transactions on](#)  
Volume 39, Issue 1, Feb. 1996 Page(s):90 - 92  
Digital Object Identifier 10.1109/13.485238  
[AbstractPlus](#) | Full Text: [PDF\(500 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 3. Wiener filters in canonical coordinates for transform coding, filtering, and  
Scharf, L.; Thomas, J.K.;  
[Signal Processing, IEEE Transactions on \[see also Acoustics, Speech, and Sig](#)  
[IEEE Transactions on\]](#)  
Volume 46, Issue 3, March 1998 Page(s):647 - 654  
Digital Object Identifier 10.1109/78.661332  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(340 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 4. Deriving spectra from colors and rendering light interference  
Sun, Y.; Fracchia, F.D.; Calvert, T.W.; Drew, M.S.;  
[Computer Graphics and Applications, IEEE](#)  
Volume 19, Issue 4, July-Aug. 1999 Page(s):61 - 67  
Digital Object Identifier 10.1109/38.773965  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(356 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 5. On ratio-based color indexing  
Adjeroh, D.A.; Lee, M.C.;  
[Image Processing, IEEE Transactions on](#)  
Volume 10, Issue 1, Jan. 2001 Page(s):36 - 48  
Digital Object Identifier 10.1109/83.892441

Proc. SPIE **4119**, 721 (2000) **Full Text:** [ PDF (241 kB) ] (12 pages)

**77%**

15. ☐ **High-quality still color image compression**  
F. Truchetet, B. Joanne, F. Pérot, and O. Laligant  
Opt. Eng. **39**, 409 (2000) **Full Text:** [ PDF (359 kB) ] (6 pages)

**77%**

16. ☐ **Multispectral multisensor image fusion using wavelet transforms**  
George P. Lemeshefsky  
Proc. SPIE **3716**, 214 (1999) **Full Text:** [ PDF (1439 kB) ] (9 pages)

**77%**

17. ☐ **Robust quadtree-based disparity estimation for the reconstruction of intermediate stereoscopic images**  
Anthony Mancini and Janusz Konrad  
Proc. SPIE **3295**, 53 (1998) **Full Text:** [ PDF (3885 kB) ] (12 pages)

**77%**

18. ☐ **RGB to CMYK conversion using 3D barycentric interpolation**  
K. D. Gennetten  
Proc. SPIE **1909**, 116 (1993) **Full Text:** [ PDF (395 kB) ] (11 pages)



[home](#) | [proceedings](#) | [journals](#)

[Terms of Use](#) | [Privacy Policy](#) | [Contact](#)

© 1994 - 2007  The International Society  
for Optical Engineering

- 79% 6. ☐ **New approach to image encryption**  
Trees-Juen Chuang and Ja-Chen Lin  
J. Electron. Imaging **7**, 350 (1998) **Full Text:**  
[ PDF (749 kB) ] (7 pages)
- 77% 7. ☐ **Adaptive shape transform for color image querying**  
Mehmet Celenk, Qiang Zhou, Vermund Vetnes, and Rakesh K. Godavari  
Proc. SPIE **5014**, 86 (2003) **Full Text:** [ PDF (534 kB) ] (13 pages)
- 77% 8. ☐ **Novel color palettization scheme for preserving important colors**  
Jiebo Luo, Kevin E. Spaulding, and Qing Yu  
Proc. SPIE **5008**, 409 (2003) **Full Text:** [ PDF (1118 kB) ] (10 pages)
- 77% 9. ☐ **Document processing for automatic color form dropout**  
Andreas E. Savakis and Christopher R. Brown  
Proc. SPIE **4472**, 575 (2001) **Full Text:** [ PDF (79 kB) ] (9 pages)
- 77% 10. ☐ **3D filter design for color pattern recognition**  
Maria J. Yzuel, Josep Nicolas, I. Moreno, and Juan Campos  
Proc. SPIE **4471**, 34 (2001) **Full Text:** [ PDF (684 kB) ] (9 pages)
- 77% 11. ☐ **Refinding objects using model-based knowledge**  
Markus Vincze, W. Frhwirth, Thomas Berndorfer, and Dietmar Legenstein  
Proc. SPIE **4572**, 391 (2001) **Full Text:** [ PDF (542 kB) ] (8 pages)
- 77% 12. ☐ **Object-to-object color mapping by image segmentation**  
Hiroaki Kotera, Mitsunori Suzuki, and Hung-Shing Chen  
J. Electron. Imaging **10**, 977 (2001) **Full Text:** [ HTML PDF (1771 kB) ] (11 pages)
- 77% 13. ☐ **Correlation of color components of camera output signal and decorrelation methods**  
Damian Bereska and Henryk Palus  
Proc. SPIE **4516**, 299 (2001) **Full Text:** [ PDF (360 kB) ] (8 pages)
- 77% 14. ☐ **Karhunen-Loeve multispectral and multiscale image restoration**  
Jean-Luc Starck, Philippe Querre, and David L. Donoho

[AbstractPlus](#) | [References](#) | Full Text: [PDF\(616 KB\)](#) IEEE JNL  
[Rights and Permissions](#)

6. Object oriented face detection using colour transformation and range seq  
Sang-Hoon Kim; Hyoung-Gon Kim; Kyun-Hyon Tchah;  
[Electronics Letters](#)  
Volume 34, Issue 10, 14 May 1998 Page(s):979 - 980  
[AbstractPlus](#) | Full Text: [PDF\(292 KB\)](#) IEE JNL
7. Self-induced color correction for skin tracking under varying illumination  
Nayak, A.; Chaudhuri, S.;  
[Image Processing, 2003. ICIP 2003. Proceedings. 2003 International Conferer](#)  
Volume 3, 14-17 Sept. 2003 Page(s):III - 1009-12 vol.2  
Digital Object Identifier 10.1109/ICIP.2003.1247418  
[AbstractPlus](#) | Full Text: [PDF\(430 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
8. JPEG2000 extensions for bit plane coding of floating point data  
Usevitch, B.E.;  
[Data Compression Conference, 2003. Proceedings. DCC 2003](#)  
25-27 March 2003 Page(s):451  
Digital Object Identifier 10.1109/DCC.2003.1194070  
[AbstractPlus](#) | Full Text: [PDF\(204 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
9. From face features analysis to automatic lip reading  
Delmas, P.; Lievin, M.;  
[Control, Automation, Robotics and Vision, 2002. ICARCV 2002. 7th Internation](#)  
Volume 3, 2-5 Dec. 2002 Page(s):1421 - 1425 vol.3  
Digital Object Identifier 10.1109/ICARCV.2002.1234981  
[AbstractPlus](#) | Full Text: [PDF\(497 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
10. Improved transforms for the compression of color and multispectral ima  
de Queiroz, R.L.;  
[Image Processing, 2002. Proceedings. 2002 International Conference on](#)  
Volume 2, 22-25 Sept. 2002 Page(s):II-381 - II-384 vol.2  
Digital Object Identifier 10.1109/ICIP.2002.1039967  
[AbstractPlus](#) | Full Text: [PDF\(466 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
11. Efficient coding of computer generated images with acceptable picture q  
Ono, F.; Ueno, I.; Takahashi, T.; Semasa, T.;  
[Image Processing, 2002. Proceedings. 2002 International Conference on](#)  
Volume 2, 22-25 Sept. 2002 Page(s):II-653 - II-656 vol.2  
Digital Object Identifier 10.1109/ICIP.2002.1040035  
[AbstractPlus](#) | Full Text: [PDF\(426 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
12. Using non-linear diffusion and motion information for video segmentatio  
Chew Keong Tan; Ghanbari, M.;  
[Image Processing, 2002. Proceedings. 2002 International Conference on](#)  
Volume 2, 22-25 Sept. 2002 Page(s):II-769 - II-772 vol.2  
Digital Object Identifier 10.1109/ICIP.2002.1040064  
[AbstractPlus](#) | Full Text: [PDF\(461 KB\)](#) IEEE CNF  
[Rights and Permissions](#)

13. Colour correction for panoramic imaging

- ☐ 1. Advances in picture coding  
Musmann, H.G.; Pirsch, P.; Grallert, H.-J.;  
[Proceedings of the IEEE](#)  
Volume 73, Issue 4, April 1985 Page(s):523 - 548  
[AbstractPlus](#) | Full Text: [PDF](#)(2276 KB) IEEE JNL  
[Rights and Permissions](#)

- ☐ 2. Image data compression: A review  
Jain, A.K.;  
[Proceedings of the IEEE](#)  
Volume 69, Issue 3, March 1981 Page(s):349 - 389  
[AbstractPlus](#) | Full Text: [PDF](#)(6143 KB) IEEE JNL  
[Rights and Permissions](#)

- ☐ 3. Back cover  
[Communications, IEEE Transactions on \[legacy..pre - 1988\]](#)  
Volume 19, Issue 6, Part 1, Dec 1971 Page(s):0 - 0  
[AbstractPlus](#) | Full Text: [PDF](#)(2368 KB) IEEE JNL  
[Rights and Permissions](#)

- ☐ 4. Intraframe coding for picture transmission